

BIM User Guide: March 2022

**ACO Standard manhole cover**

**User Guide for Autodesk Revit files**

**ACO Standard manhole cover** **Package**

Standard manhole cover is incorporated in a single Revit template along with accessories.

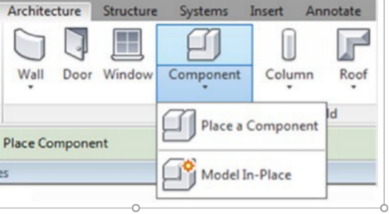
This template includes the following families:

1. Duropren frame Bituplan cover BEGU D 400
2. Duropren frame Bituplan cover cast iron D 400
3. Duropren frame BEGU cover BEGU D 400
4. Duropren frame BEGU cover cast iron D 400
5. Duropren frame cast iron cover BEGU D 400
6. Duropren frame cast iron cover cast iron D 400
7. Pewepren frame Bituplan cover BEGU D 400
8. Pewepren frame BEGU cover BEGU D 400
9. Standard frame cast iron cover cast iron B 125
10. Standard frame cast iron cover BEGU D 400
11. Standard frame cast iron cover cast iron D 400
12. Standard frame BEGU cover BEGU D 400
13. WN-WasserD 400

A picture containing text

Description automatically generated

**Loading ACO Standard manhole cover into the project:**



1. Download the ACO Standard manhole cover project file and save it to a suitable location
2. Select any one of the family from ACO Standard cover and

load to your project

1. Navigate to the “Insert” icon on the Revit ribbon and click “Load Family”
2. The file can now be placed into your project. Navigate to the “Architecture/Component” icons on the Revit ribbon and click “Place a Component”
3. **Placing of “Duropren frame Bituplan cover BEGU D 400”**
4. Click on the model – At properties tool bar, it will display family name and types

Graphical user interface, text, application

Description automatically generated

1. Family consists of 5 family types; the user can select the family type from the “Properties” drop down menu

Graphical user interface, application, Word

Description automatically generated

1. After selecting the family type, the user can have multiple options like, selection of lettering frame, ventilation opening, height adjustment and related accessories as shown in image

Table

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* **Frame Height adjustment:** The user can adjust the frame height by entering value range limits by looking H\_min and H\_max range and enter required height within the limits, if user enters value below or above the limits then warning pop up will display



* **Selection of Ventilation:** The user can select with ventilation opening or without ventilation by selecting check box as shown in below image.

A picture containing diagram

Description automatically generated

* **Selection of Lettering frame:** By default, without lettering frame will be selected in all the family type, if the user needs rainwater lettering frame or dirty water lettering frame then the user as to select check box as shown in image.

In case, if user select multiple check box, then warning pop up will display.

Table

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1. **Note**: Similarly for other families have same functionality as explained for “Duropren frame Bituplan cover BEGU D 400”

**Workplane Based Families:** The families are work plane-based families so they can be placed in flat surface and sloped surface of road as shown below

**Icon

Description automatically generated**

**Material Library:**

The ACO Standard manhole cover file contains materials that are already pre-loaded into the components. When loading the ACO Standard manhole cover file into your project the pre-loaded materials will automatically transfer through.

**Schedules and quantities:**

The information such as article number, GTIN data, weight, installation guidelines within the parameters is stored as “Shared Parameters” with LOD 400 so it can easily appear when creating a schedule and quantities in the project environment as follows

